

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P510331

Luminaire Tested: **VERD-M-CA4-250-750-U-T1**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-250-750-U-T1
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5000K, 1130mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37346 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

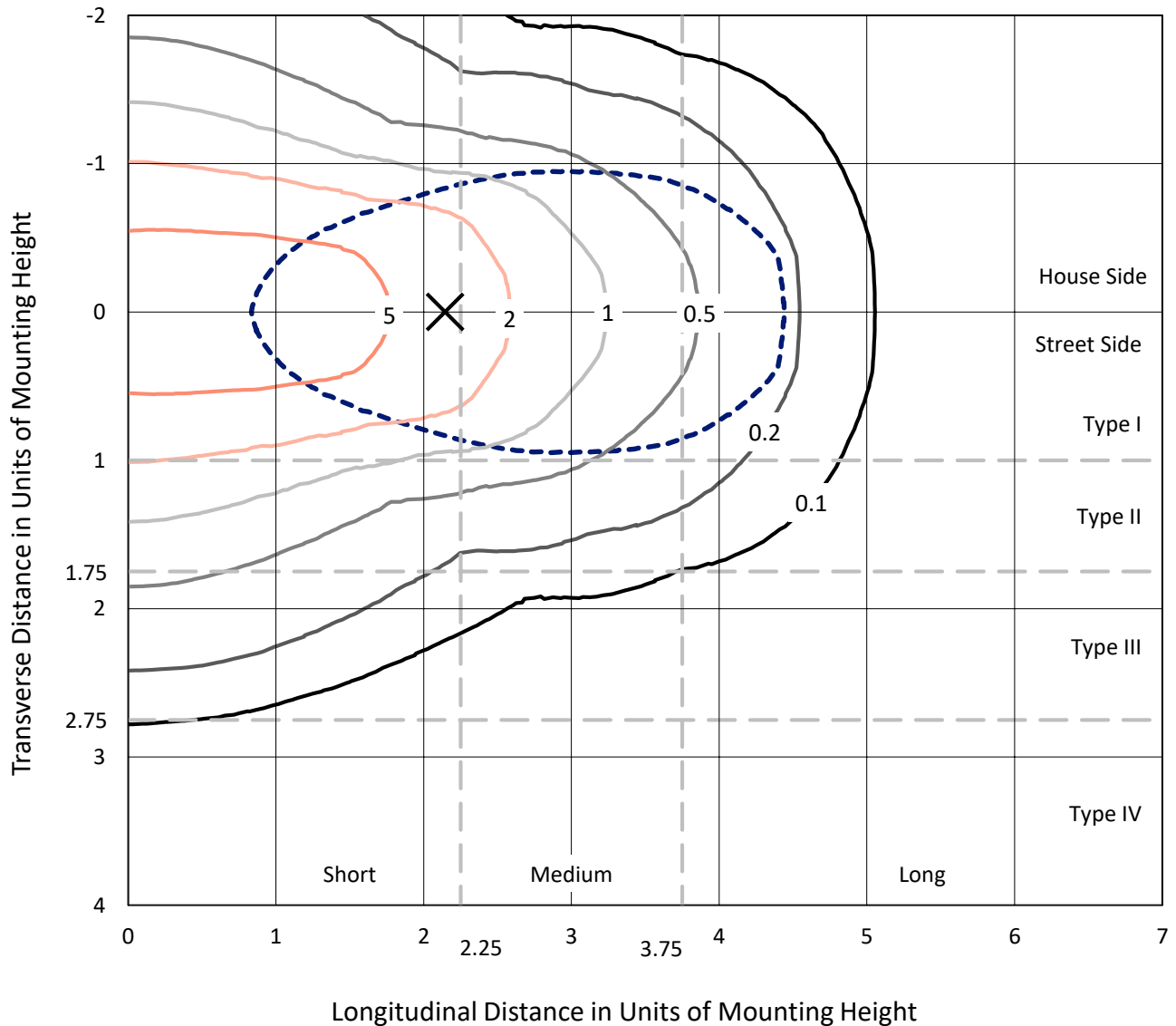
Input Watts (W): 251.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

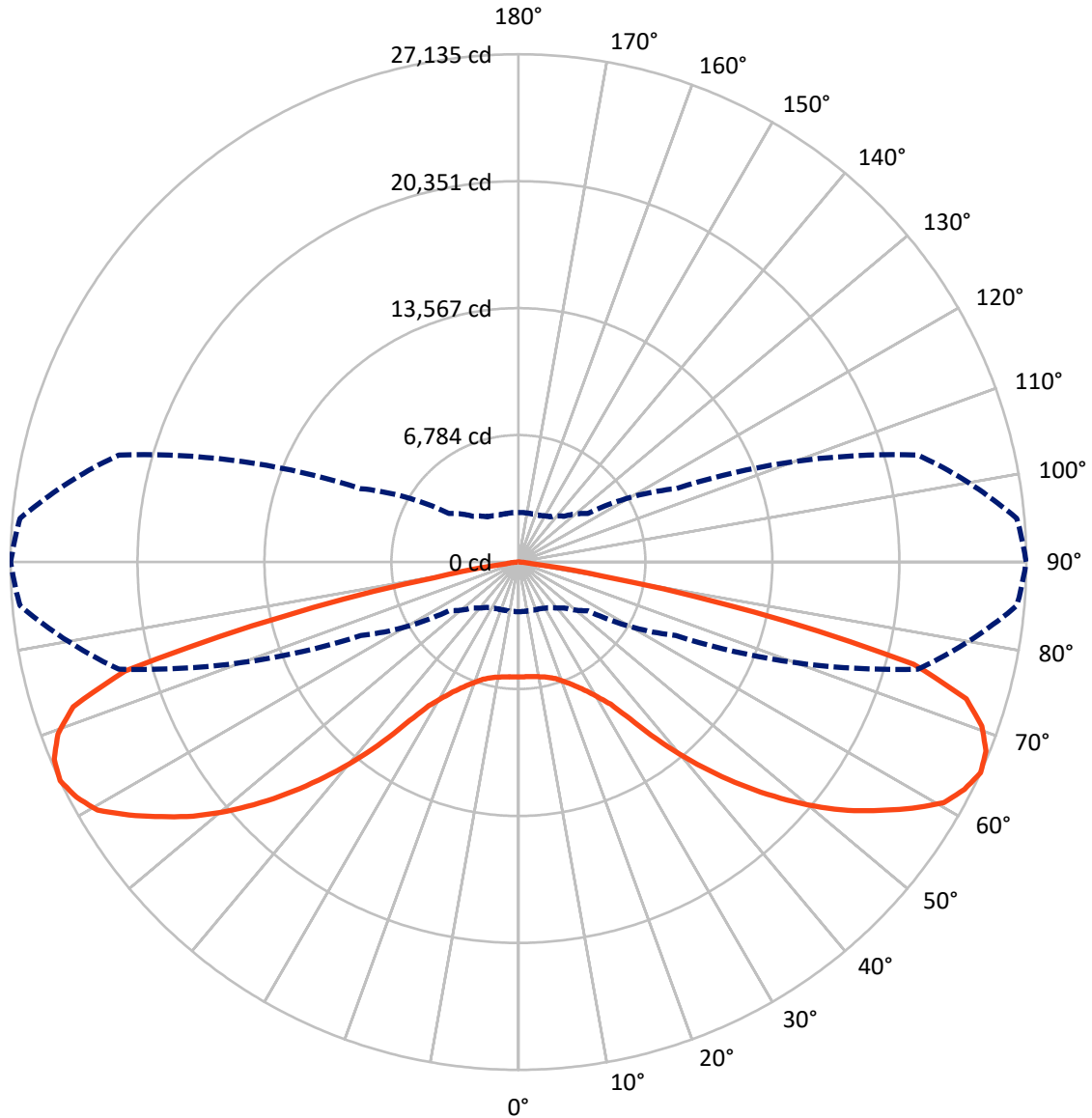
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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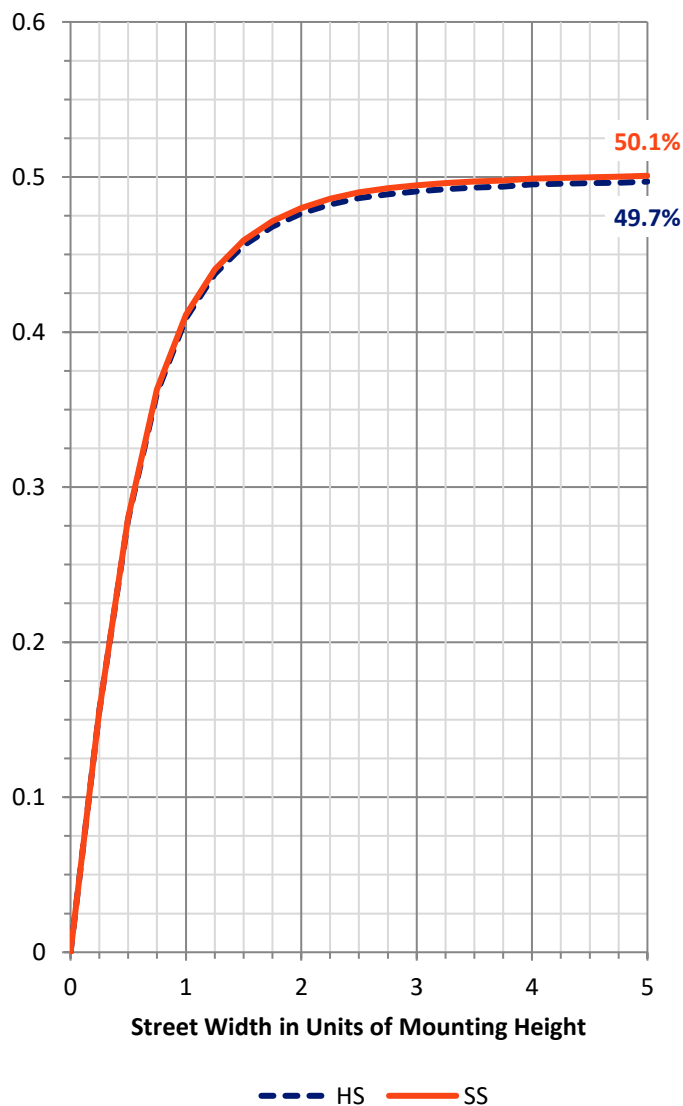
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18673.0	0.0	18673.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18673.0	0.0	18673.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37346.0	0.0	37346.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.8	1.6
10°-20°	1736.3	4.6
20°-30°	2866.6	7.7
30°-40°	4200.3	11.2
40°-50°	6126.9	16.4
50°-60°	7932.3	21.2
60°-70°	8357.2	22.4
70°-80°	5100.7	13.7
80°-90°	440.9	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	37346.0	100.0
0°-180°	37346.0	100.0

Coefficient of Utilization



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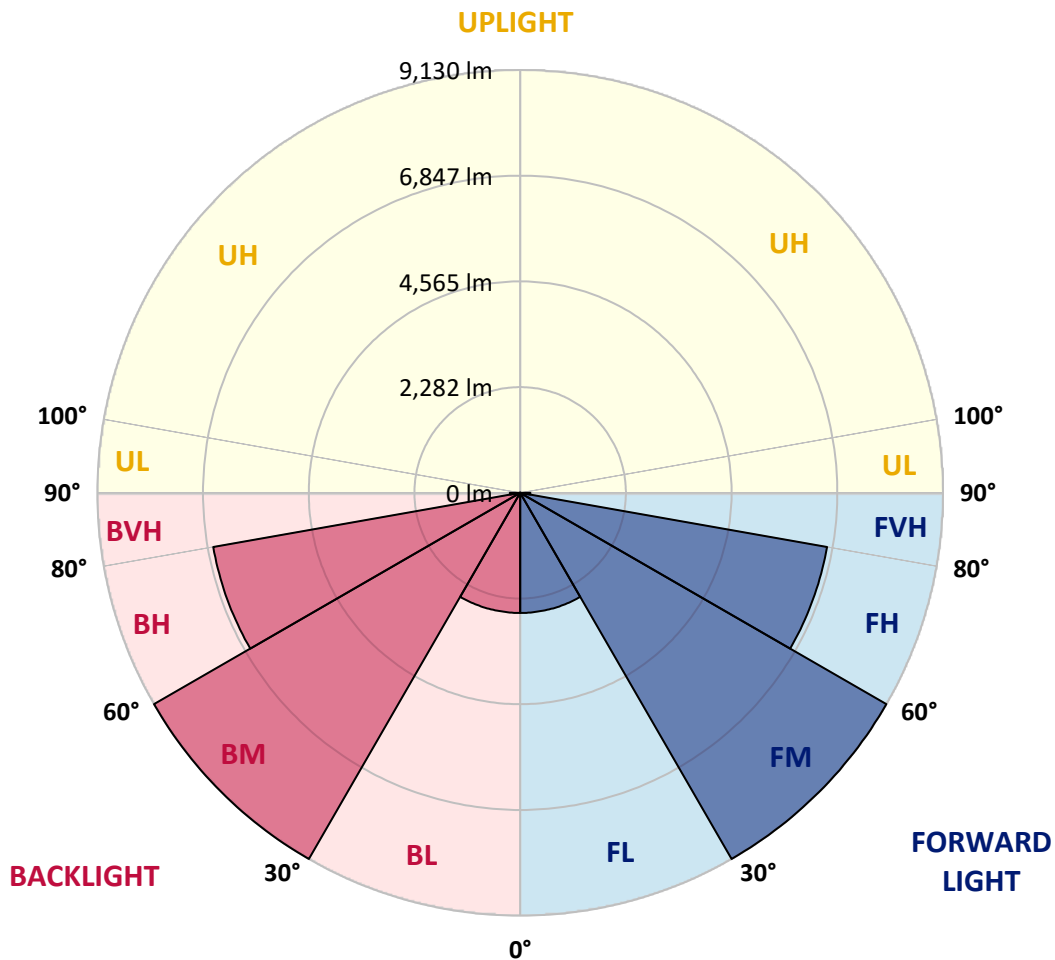
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2593.8	6.9			
FM (30°-60°)	9129.8	24.4			
FH (60°-80°)	6729.0	18.0			G3/7500
FVH (80°-90°)	220.5	0.6			G2/225
BL (0°-30°)	2593.8	6.9	B4/5000		
BM (30°-60°)	9129.8	24.4	B5		
BH (60°-80°)	6729.0	18.0	B5		G5
BVH (80°-90°)	220.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6144.3	6144.3	6144.3	6144.3	6144.3	6144.3	6144.3	6144.3	6144.3	6144.3	6144.3
2.5°	6093.4	6142.7	6150.6	6129.9	6131.5	6128.4	6141.1	6145.8	6152.2	6142.7	6137.9
5°	6083.8	6126.8	6134.7	6125.2	6137.9	6134.7	6141.1	6152.2	6150.6	6147.4	6147.4
7.5°	6032.9	6064.7	6090.2	6083.8	6087.0	6107.7	6129.9	6166.5	6184.0	6184.0	6180.8
10°	5966.1	5999.5	6042.5	6032.9	6053.6	6096.5	6141.1	6179.2	6223.8	6233.3	6233.3
12.5°	5894.5	5940.7	5982.0	5991.6	6039.3	6088.6	6169.7	6228.6	6279.5	6301.7	6300.1
15°	5799.1	5838.9	5888.2	5923.2	5999.5	6106.1	6212.6	6303.3	6376.5	6406.7	6411.5
17.5°	5671.9	5714.8	5767.3	5840.5	5974.1	6126.8	6292.2	6414.6	6526.0	6557.8	6557.8
20°	5504.9	5551.0	5614.6	5727.5	5908.9	6147.4	6368.5	6561.0	6705.7	6780.5	6791.6
22.5°	5245.6	5296.5	5399.9	5595.5	5834.1	6144.3	6459.2	6732.8	6950.7	7047.7	7058.8
25°	4957.7	5022.9	5169.3	5426.9	5741.8	6141.1	6549.8	6926.8	7217.9	7367.4	7399.2
27.5°	4703.2	4765.3	4945.0	5263.1	5656.0	6147.4	6640.5	7149.5	7569.4	7784.1	7811.1
30°	4453.5	4509.2	4709.6	5088.1	5576.4	6155.4	6756.6	7405.6	7968.6	8296.3	8361.5
32.5°	4248.3	4304.0	4498.0	4902.0	5479.4	6172.9	6904.5	7747.5	8523.7	9013.6	9054.9
35°	4068.6	4132.2	4302.4	4714.4	5350.6	6198.3	7090.6	8196.1	9319.0	10222.4	10270.1
37.5°	3912.7	3963.6	4114.7	4515.5	5215.4	6203.1	7306.9	8722.5	10346.5	11680.9	12007.0
40°	3809.3	3844.3	3960.4	4332.6	5037.2	6163.3	7555.1	9311.0	11491.7	13374.9	13747.0
42.5°	3715.5	3747.3	3839.6	4164.0	4851.1	6087.0	7785.7	9915.4	12638.4	15105.4	15456.9
45°	3602.6	3628.0	3721.9	4020.9	4669.8	5969.3	7976.6	10475.3	13825.0	16843.8	17174.7
47.5°	3510.3	3529.4	3608.9	3892.1	4467.8	5780.0	8057.7	10982.7	15097.4	18451.9	18862.2
50°	3446.7	3440.3	3510.3	3758.4	4261.1	5516.0	7989.3	11358.0	16438.2	20061.5	20503.7
52.5°	3337.0	3343.3	3410.1	3620.1	4089.3	5189.9	7722.1	11622.1	17787.0	21531.1	22054.4
55°	3224.0	3233.6	3286.1	3475.3	3908.0	4879.8	7227.4	11658.7	19197.8	23067.6	23423.9
57.5°	3103.1	3107.9	3152.5	3319.5	3706.0	4558.5	6603.9	11426.4	20506.8	24476.8	24814.0
60°	2996.6	2998.2	3028.4	3157.2	3481.7	4211.8	5878.6	10960.4	21561.4	25558.4	26107.1
62.5°	2853.4	2853.4	2872.5	2980.7	3252.7	3853.9	5182.0	10238.3	22137.1	26347.3	26746.5
65°	2648.2	2651.4	2670.5	2740.5	2952.0	3464.2	4528.3	9284.0	22102.1	26733.8	27134.6
67.5°	2255.4	2247.4	2362.0	2476.5	2641.9	3069.7	3887.3	8347.2	21300.5	26568.4	26943.7
70°	1633.5	1622.4	1689.2	1851.4	2250.6	2564.0	3303.6	7564.6	18997.4	25949.7	26261.4
72.5°	1340.8	1347.2	1350.4	1329.7	1506.2	2075.7	2759.6	6653.2	15674.8	24052.1	25022.4
75°	1060.9	1045.0	1062.5	1078.4	1126.1	1216.8	2233.1	5539.9	12721.1	20168.0	21804.7
77.5°	669.6	660.1	658.5	668.0	730.1	771.4	1367.9	4060.6	8851.4	12757.7	12865.9
80°	466.0	464.4	466.0	478.8	499.4	509.0	758.7	2225.2	4456.7	4646.0	4563.3
82.5°	330.8	319.7	310.2	334.0	322.9	313.3	456.5	1019.5	1202.4	819.1	664.8
85°	163.8	167.0	141.6	179.7	168.6	163.8	178.1	194.0	179.7	335.6	380.1
87.5°	46.1	44.5	49.3	57.3	55.7	63.6	57.3	62.0	73.2	127.2	125.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)